



VisualAge™

A Powerful New Vision Of Programming.

Now See It With Your Own Eyes

Introducing VisualAge: IBM's application-building power tool for professional developers. It will revolutionize how you create line-of-business applications. Using VisualAge, you can:

- Create advanced line-of-business applications for client/server environments in a fraction of the time normally required
- Design intuitive and consistent graphical user interfaces
- Mine your enormous investment in business-critical code
- Learn object-oriented technology at your own pace
- Move large-scale team development into an object-oriented environment

Increase Productivity

VisualAge is not just a GUI builder or prototyping tool. VisualAge is a power tool for building industrial-strength applications—such as sophisticated on-line transaction processing (OLTP) and decision support applications.

Novice VisualAge users have built applications in two weeks that normally would take months using C or COBOL. Applications that might take weeks? Done in hours.

Programming with VisualAge is intuitive and enjoyable. And, it can be a morale-booster as application backlogs disappear and end users start applauding the powerful results.



Create Intuitive, Easy-To-Use Business Applications

VisualAge provides everything you need to build the client portion of client/server applications in a pure object-oriented development environment:

- Multiple platform support for both development and execution of applications on IBM OS/2® and Microsoft* Windows*
- IBM Smalltalk with class-libraries and enhanced browser support
- Extensive, expandable library of prefabricated parts
- Multiple communication protocols, relational databases and multimedia support
- Support for SOM/DSOM as well as DDE
- Stand-alone and integrated team programming versions
- Advanced test facilities, debuggers, performance-tuning application packaging tools, and runtime performance analysis tools

Visual Programming Tool: Picture This

Many applications require no code to be written at all. You simply select parts from the library and make the appropriate connections on the screen. When new parts need to be written, they can be written in IBM Smalltalk, which is accessible from VisualAge. As an alternative, new parts can be obtained from vendors participating in the IBM Object Connection Program, or built using C or COBOL and VisualAge will automatically make the parts behave like objects. In addition, support is provided for Dynamic Data Exchange (DDE) which allows the exchange of data between two VisualAge applications or between VisualAge and conforming commercial software packages.

Prefabricated parts in the library include generic parts for:

- Database queries
- CICS™ transaction program
- Remote and local functions
- Graphical User Interface support of Common User Access™ (CUA™)
- Multimedia

Other features include a visual connection debugger, color and font palettes, national language support, and enhanced packaging of applications for minimum runtime image size.

Scales Up: Team Development Version & Extensibility

The team programming version includes a LAN central library of classes, parts and subsystems which programmers can access and update concurrently. Integrated team support includes:

- Source and object code tracking to allow immediate code sharing
- Source and object code version control to protect against accidental or unwanted changes

- Multiple version and release support
- Configuration management tools

Support Over Multiple Protocols

VisualAge provides client/server and communication support over multiple protocols:

- APPC
- CPI-C
- TCP/IP
- NetBIOS
- EHLLAPI
- CICS OS/2™ External Call Interface

Relational Database Support

VisualAge supports both local and remote databases:

- DB2/2™, DB2/6000™ in the base products
- DB2®, DB2/VSE and VM (SQL/DS™), DB2/400™ via DDCS/2
- Microsoft SQL Server, Oracle* and Sybase* SQL Server as an add-on feature

VisualAge also provides an interactive query builder, visual support for invoking stored procedures, as well as access to AS/400® data and services.

Standards

VisualAge contains a complete Smalltalk-based environment and incorporates industry standards such as POSIX*, X-Windows,* Motif* and IBM's System Object Model (SOM) to provide component interoperability across languages. IBM Smalltalk is also based on the proposed ANSI standard for a common Smalltalk base.

Ease Your Entry Into Object-Oriented Programming

Written in IBM Smalltalk and in VisualAge itself, VisualAge can be adopted without in-depth object-oriented skills and eases the transition to object-oriented programming.

Look For It...The VisualAge

VisualAge. Powerful. Complete. The beginning of a new age in application development: the visual age.

To order, call 1 800 IBM-CALL in the U.S., or 1 800 565-SW4U, ext. 662, in Canada.

For more information and for consulting and service offerings, call 1 800 IBM-CARY (International 919-469-7763). For educational offerings, call 1 800 IBM-TEAC in the U.S., or 1 800 661-2131 in Canada. Or fax us your request at 919-469-7423 in the U.S., or 1 800 267-5185 in Canada. You can also append CompuServe* under VisualAge (GO VISUAL).

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